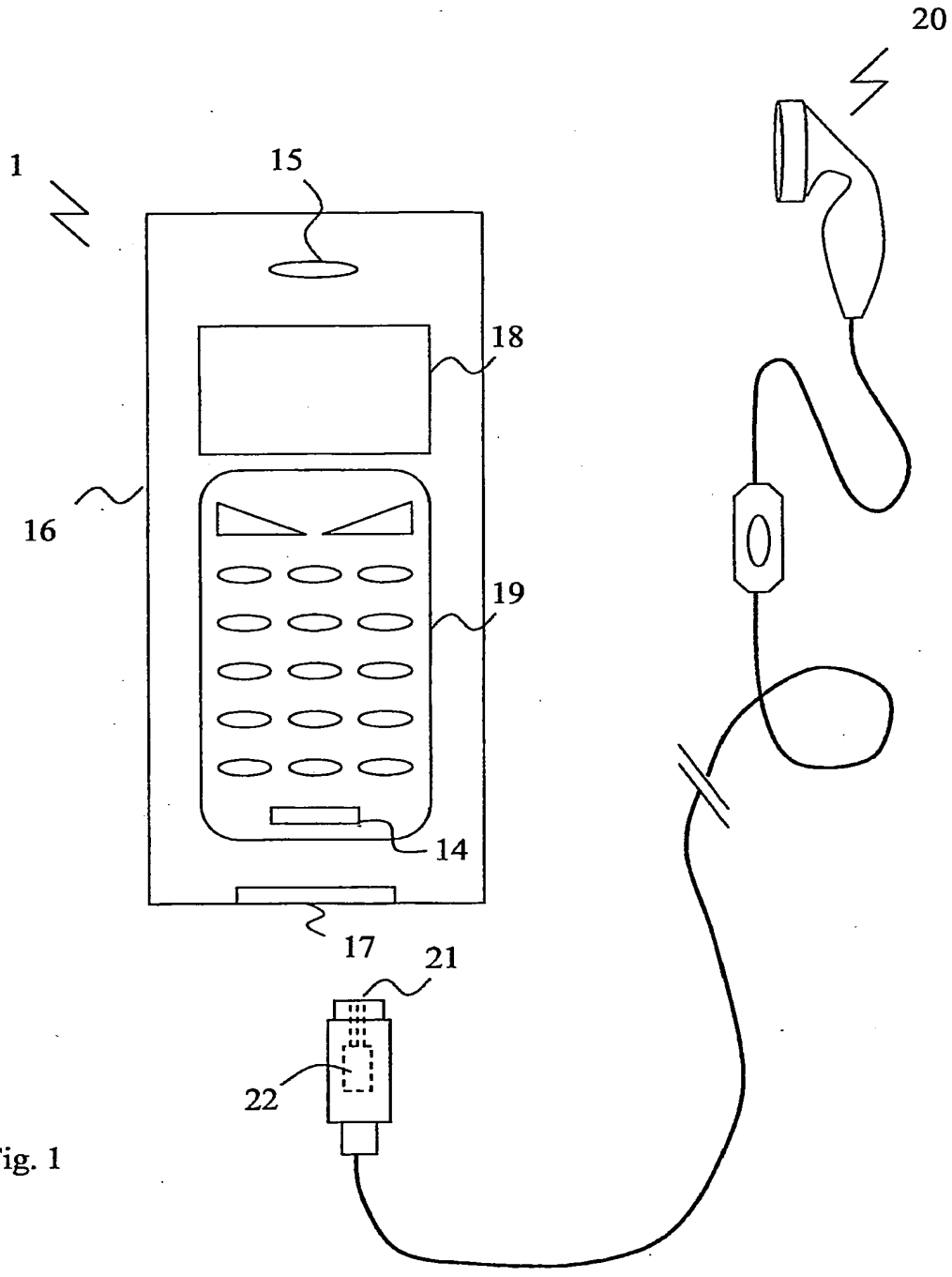

Fig. 1

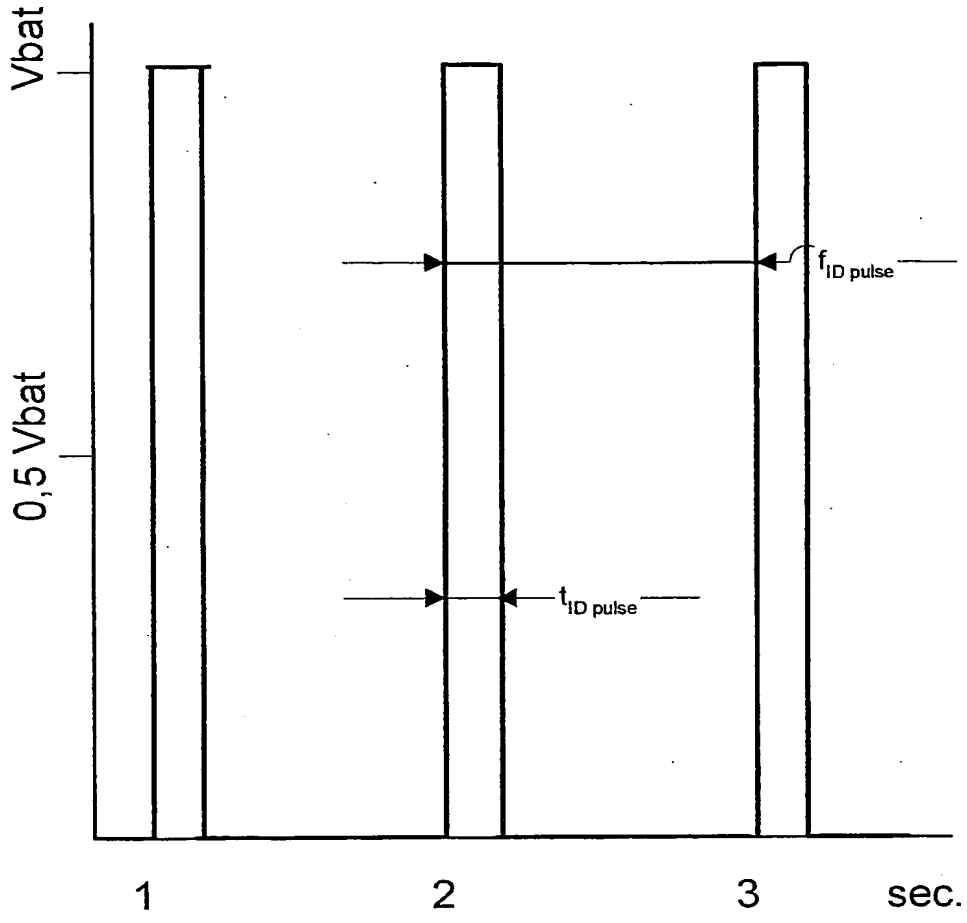

Fig. 2

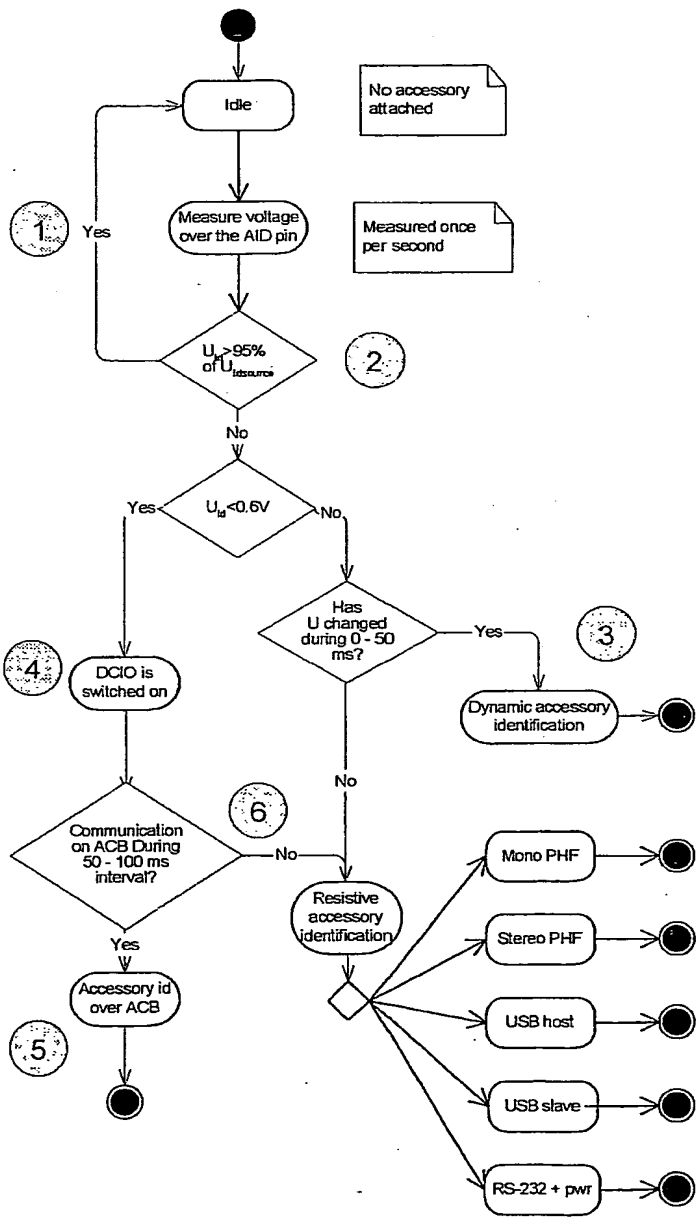
Idle
No accessory attached
Measure voltage over the AID pin
Measured once per second
1
Yes
U_{id}>95% of $U_{idsource}$
2
No
U_{id}<0.6V
Yes
No
Has U changed during 0 - 50 ms?
Yes
3
Dynamic accessory identification
4
DCIO is switched on
No
6
Communication on ACB During 50 - 100 ms interval?
No
Yes
Resistive accessory identification
Accessory id over ACB
5
Mono PHF
Stereo PHF
USB host
USB slave
RS-232 + pwr

Fig. 3

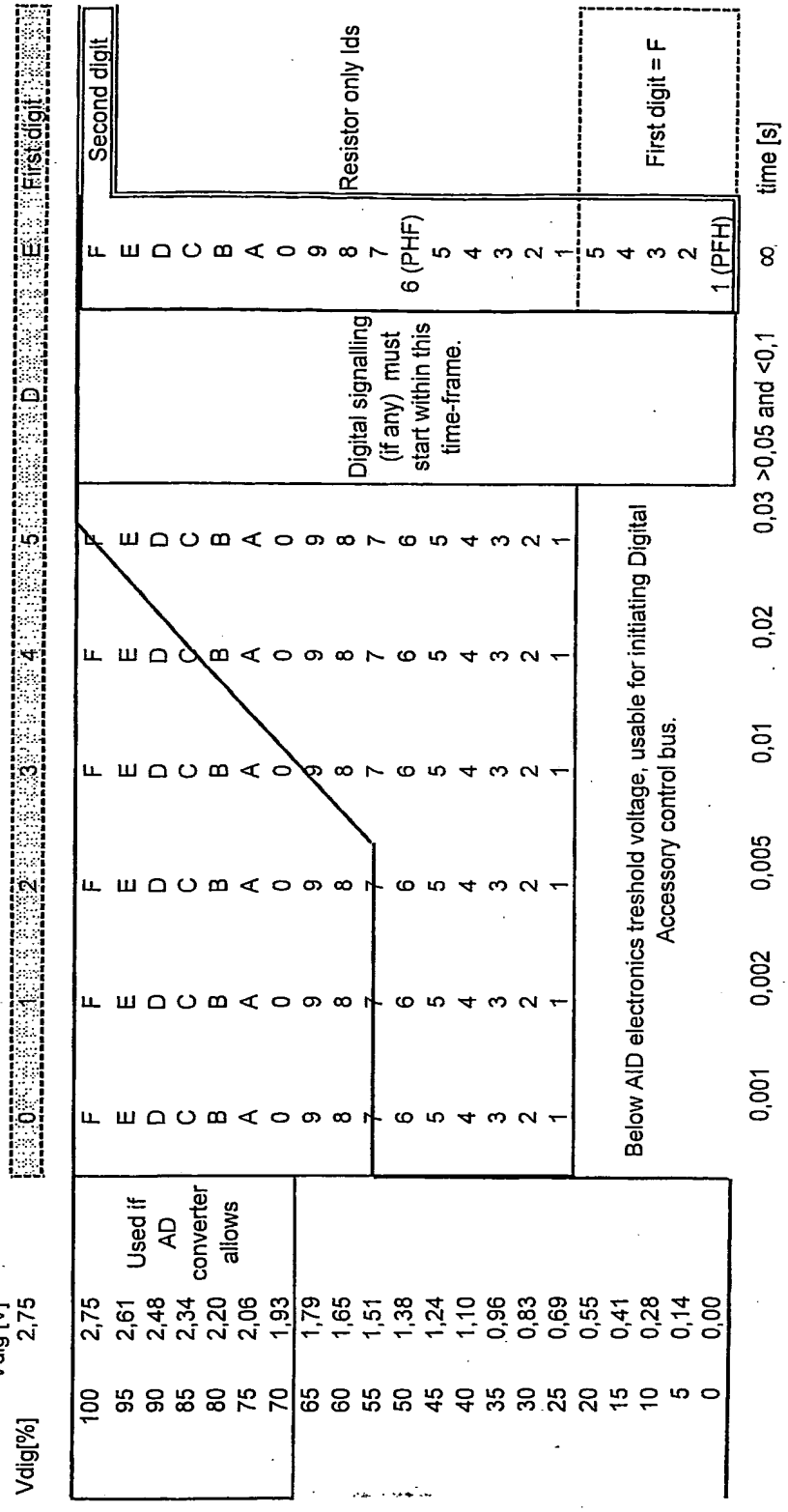
AID
Vdig [V]
Vdig[%]
Used if AD converter allows
First digit
Second digit
Resistor only Ids
Digital signalling (if any) must start within this time-frame.
Below AID electronics treshold voltage, usable for initiating Digital Accessory control bus.
First digit = F
time [s]
0,001
0,002
0,005
0,01
0,02
0,03 >0,05 and <0,1
∞
1 (PFH)
6 (PHF)

Fig. 4

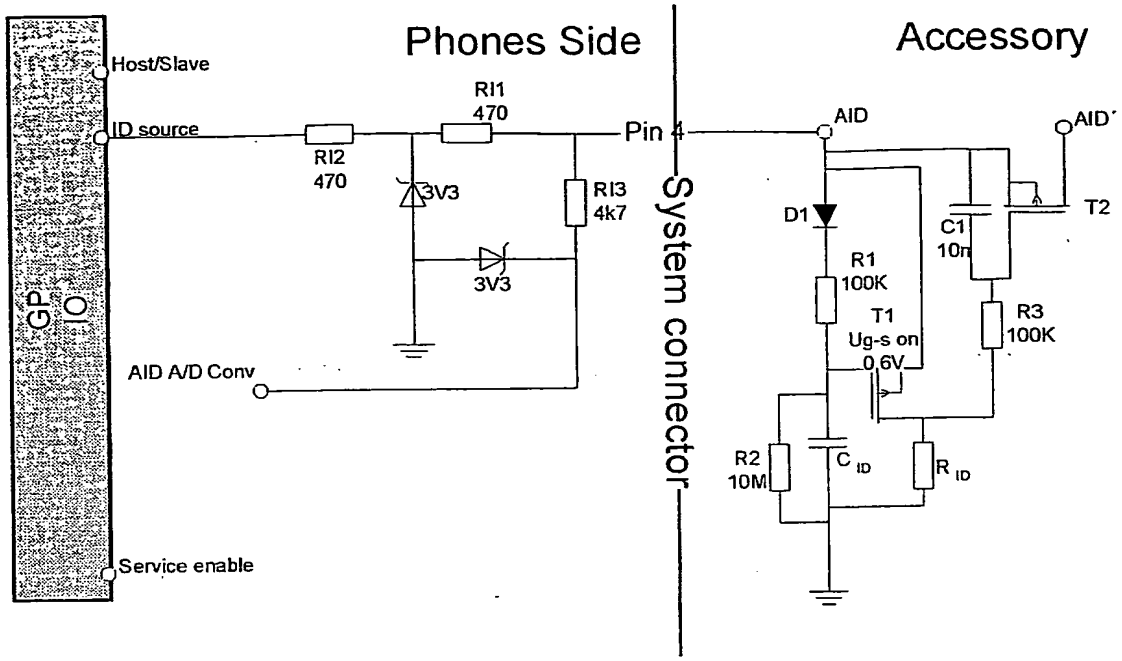
Phones Side
Accessory
Host/Slave
ID source
RI1
470
RI2
470
3V3
RI3
4k7
3V3
Pin 4
AID
AID'
D1
C1
10n
T2
R1
100K
T1
Ug-s on
0.6V
R3
100K
R2
10M
C ID
R ID
AID A/D Conv
GP IO
Service enable
System connector

Fig. 5

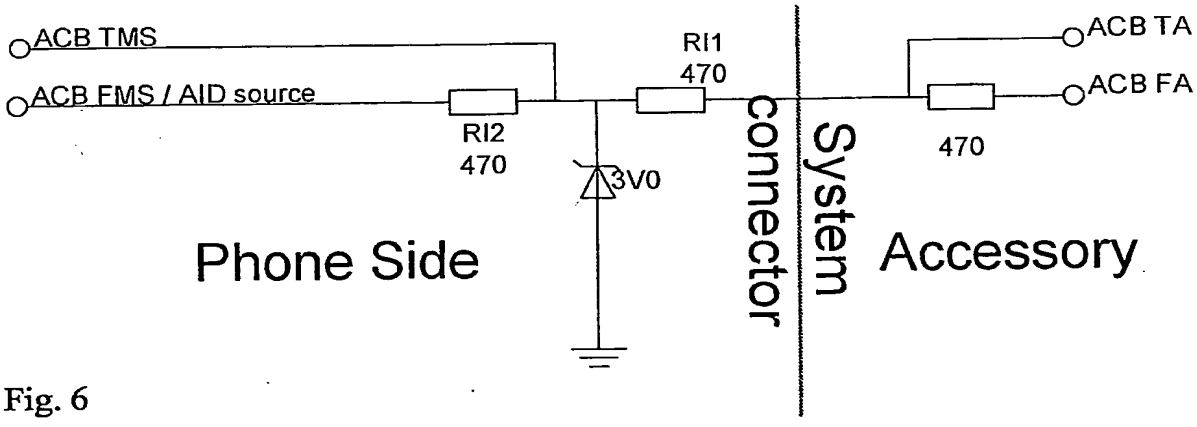
ACB TMS
ACB FMS / AID source
RI1
470
RI2
470
3V0
ACB TA
ACB FA
470
Phone Side
System connector
Accessory

Fig. 6

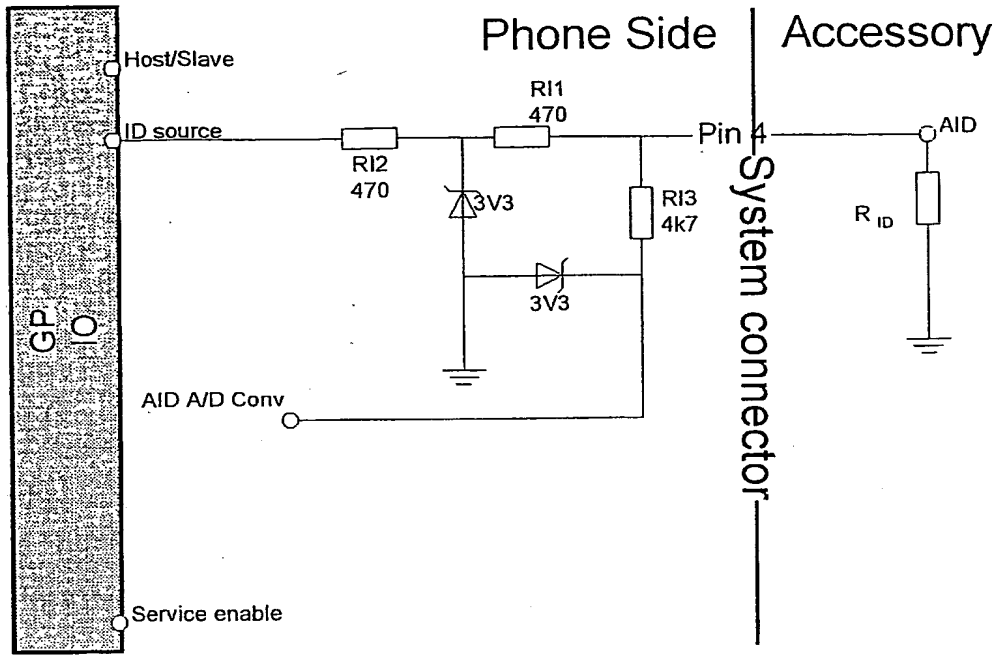
Phone Side
Accessory
GP IO
Host/Slave
ID source
RI2
470
RI1
470
3V3
RI3
4k7
3V3
Pin 4
System connector
AID
R ID
AID A/D Conv
Service enable

Fig. 7

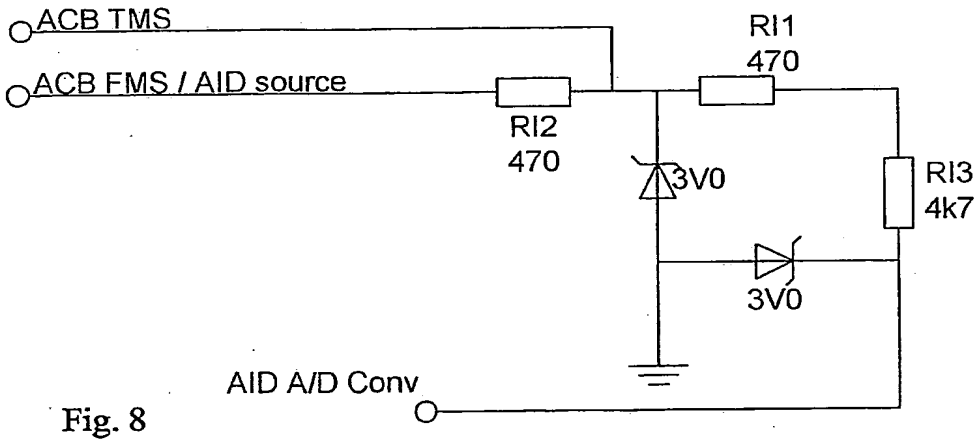
ACB TMS
ACB FMS / AID source
RI2
470
RI1
470
3V0
RI3
4k7
3V0
AID A/D Conv

Fig. 8

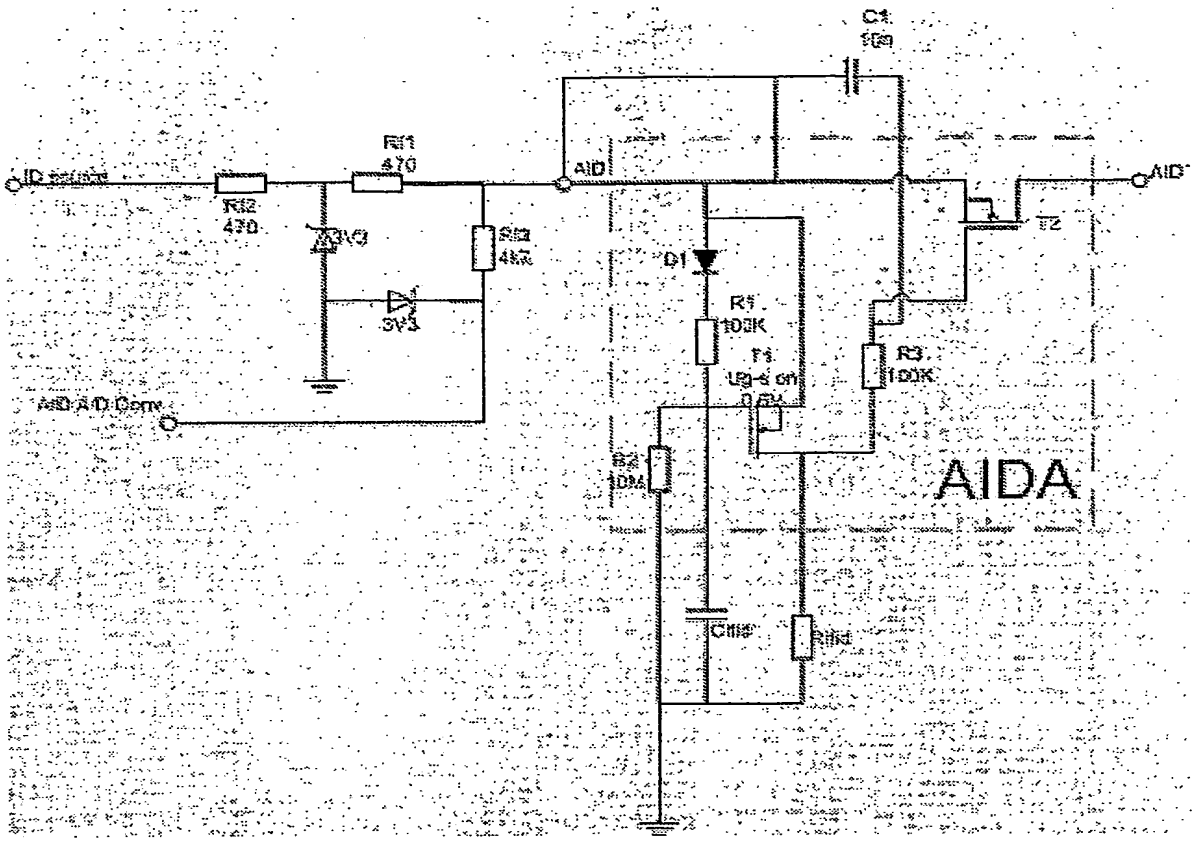
C1
R11
470
AID
AID
R12
470
3V3
R13
4K7
3V3
D1
R1
100K
R3
100K
AID A/D Conv
R2
10M
AIDA

Fig. 9